



Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-44. (canceled)

45. (new) A vehicle safety system, comprising:

a wireless piconet transmitter to transmit a piconet signal to a second vehicle;

a measurer to measure at least one of a round-trip delay time of said piconet signal between said first vehicle and said second vehicle, and a received signal strength indicator (RSSI) from said second vehicle; and

a rudimentary ranging information determiner to determine rudimentary ranging information from at least one of said round-trip delay time and said RSSI.

46. (new) The vehicle safety system according to claim 45, wherein:

at least one of a braking system, an accelerator control, and a steering control are at least one of enabled, disabled, and variably controlled based on said rudimentary ranging information.

47. (new) The vehicle safety system according to claim 45, wherein:

a current speed of said first vehicle is adjusted based on said rudimentary ranging information.

48. (new) The vehicle safety system according to claim 45, wherein:

said rudimentary ranging information allows a determination of a current direction of said second vehicle.

49. (new) The vehicle safety system according to claim 45, wherein:

said rudimentary ranging information allows a determination of a desired fore and aft separation distance between said first vehicle and said second vehicle.

50. (new) The vehicle safety system according to claim 45, wherein:

said rudimentary ranging information allows a determination of a desired separation distance between a side of said first vehicle and a side of said second vehicle.

51. (new) The vehicle safety system according to claim 45, wherein:

a cruise control system is controlled in a variable fashion using said rudimentary ranging information.

52. (new) A method of maintaining safety between vehicles, comprising:

transmitting a piconet signal to a second vehicle;

measuring at least one of a round-trip delay time of said piconet signal between said first vehicle and said second vehicle, and a received signal strength indicator (RSSI) from said second vehicle; and

determining rudimentary ranging information from at least one of said round-trip delay time and said RSSI.

53. (new) The method of maintaining safety between vehicles according to claim 52, wherein:

at least one of a braking system, an accelerator control, and a steering control are at least one of enabled, disabled, and variably controlled based on said rudimentary ranging information.

54. (new) The method of maintaining safety between vehicles according to claim 52, wherein:

a current speed of said first vehicle is adjusted based on said rudimentary ranging information.

55. (new) The method of maintaining safety between vehicles according to claim 52, wherein:

said rudimentary ranging information allows a determination of a current direction of said second vehicle.

56. (new) The method of maintaining safety between vehicles according to claim 52, wherein:

said rudimentary ranging information allows a determination of a desired fore and aft separation distance between said first vehicle and said second vehicle.

57. (new) The method of maintaining safety between vehicles according to claim 52, wherein:

said rudimentary ranging information allows a determination of a desired separation distance between a side of said first vehicle and a side of said second vehicle.

58. (new) The method of maintaining safety between vehicles according to claim 52, wherein:

a cruise control system is controlled in a variable fashion using said rudimentary ranging information.

59. (new) Apparatus for maintaining safety between vehicles, comprising:

means for transmitting a piconet signal to a second vehicle;

means for measuring at least one of a round-trip delay time of said piconet signal between said first vehicle and said second vehicle, and a received signal strength indicator (RSSI) from said second vehicle; and

means for determining rudimentary ranging information from at least one of said round-trip delay time and said RSSI.

60. (new) Apparatus for maintaining safety between vehicles according to claim 59, wherein:

at least one of a braking system, an accelerator control, and a steering control are at least one of enabled, disabled, and variably controlled based on said rudimentary ranging information.

61. (new) Apparatus for maintaining safety between vehicles according to claim 59, wherein:

a current speed of said first vehicle is adjusted based on said rudimentary ranging information.

62. (new) Apparatus for maintaining safety between vehicles according to claim 59, wherein:

said rudimentary ranging information allows a determination of a current direction of said second vehicle.

63. (new) Apparatus for maintaining safety between vehicles according to claim 59, wherein:

said rudimentary ranging information allows a determination of a desired fore and aft separation distance between said first vehicle and said second vehicle.

64. (new) Apparatus for maintaining safety between vehicles according to claim 59, wherein:

said rudimentary ranging information allows a determination of a desired separation distance between a side of said first vehicle and a side of said second vehicle.

65. (new) Apparatus for maintaining safety between vehicles according to claim 59, wherein:

a cruise control system is controlled in a variable fashion using said rudimentary ranging information.